

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P283475

Luminaire Tested: **LDA2B058035D010 EU2B05FL408035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058035D010 EU2B05FL408035 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 668.8 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

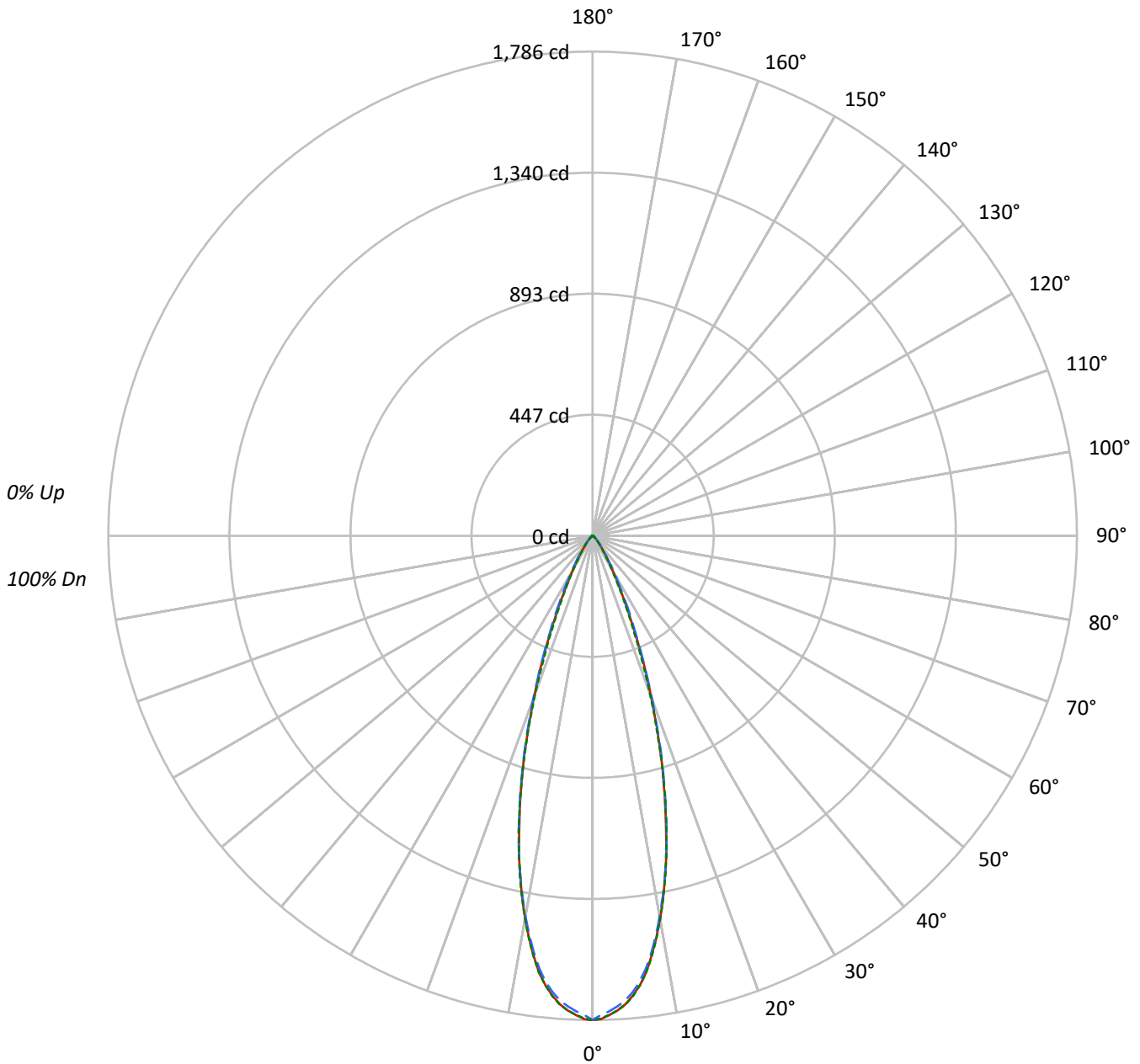
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	881193	881193	881193
5°	843305	837016	844593
10°	718445	713936	719196
15°	529562	532984	531247
20°	330556	336698	323310
25°	170767	183233	162166
30°	81864	93827	78047
35°	42280	46797	39570
40°	23701	24860	22477
45°	14373	14373	13885
50°	7522	9210	7522
55°	3871	6107	4215
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5481	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	23.0
10°-20°	282.2	42.2
20°-30°	153.0	22.9
30°-40°	49.1	7.3
40°-50°	16.7	2.5
50°-60°	5.9	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.5
80°-90°	0.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	588.8	88.0
0°-40°	637.9	95.4
0°-60°	660.5	98.8
0°-90°	668.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	668.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1703	1692	1690	1707	1705	154
15°	1037	1045	1044	1048	1040	281
25°	314	328	337	313	298	150
35°	70	73	78	70	66	47
45°	21	21	21	21	20	16
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.1	1786.1	1786.1	1786.1	1786.1
1°	1783.1	1770.4	1768.5	1785.0	1781.2
2°	1768.9	1756.8	1755.0	1771.5	1768.1
3°	1753.1	1742.2	1738.5	1755.7	1753.5
4°	1732.1	1721.9	1718.6	1735.8	1734.0
5°	1702.8	1692.3	1690.1	1706.9	1705.4
6°	1666.8	1658.2	1654.0	1670.9	1667.9
7°	1621.8	1613.9	1609.4	1621.8	1623.3
8°	1563.2	1559.5	1554.2	1566.6	1566.6
9°	1500.9	1497.6	1491.9	1503.2	1503.2
10°	1434.1	1431.9	1425.1	1435.6	1435.6
11°	1361.0	1359.8	1355.0	1363.6	1363.6
12°	1284.0	1286.7	1282.2	1289.7	1287.1
13°	1207.1	1206.0	1206.4	1212.0	1207.9
14°	1120.1	1126.8	1128.0	1131.3	1125.0
15°	1036.8	1045.4	1043.5	1048.4	1040.1
16°	951.6	961.3	961.0	962.1	954.2
17°	872.0	877.7	878.0	876.9	867.2
18°	787.2	795.1	795.1	793.2	781.6
19°	704.3	710.3	714.4	710.3	696.8
20°	629.6	633.8	641.3	630.8	615.8
21°	558.0	561.7	568.1	555.7	539.2
22°	489.3	494.2	500.2	485.9	468.7
23°	425.1	436.4	438.6	419.1	404.5
24°	366.2	379.0	382.7	362.9	347.5
25°	313.7	328.0	336.6	313.3	297.9
26°	268.3	282.2	292.7	269.4	254.8
27°	228.5	243.2	254.0	232.3	218.4
28°	194.4	208.6	219.9	199.6	186.5
29°	168.9	177.1	188.4	171.5	159.5
30°	143.7	152.7	164.7	147.5	137.0
32.5°	98.7	103.6	112.9	102.4	94.2
35°	70.2	73.2	77.7	70.5	65.7
37.5°	49.9	51.4	54.0	49.9	47.3
40°	36.8	37.5	38.6	36.4	34.9
42.5°	27.4	27.8	27.8	27.0	26.3
45°	20.6	21.0	20.6	20.6	19.9
47.5°	15.0	16.1	15.8	15.8	14.6
50°	9.8	12.0	12.0	11.6	9.8
52.5°	6.0	8.3	9.4	8.3	6.4
55°	4.5	5.6	7.1	5.6	4.9
57.5°	4.5	4.5	5.3	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.8	4.1	4.1
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)